

IN THE SPECIFICATION:

On page 1, please replace the paragraph as follows:

---

*A1*  
This application is related to co-pending application Serial No. 09/887,905 entitled  
“CLOCK GENERATION SYSTEMS AND METHODS,” filed concurrently herewith and  
commonly assigned, the content of which is hereby incorporated by reference.

---

On page 12, please replace the paragraph as follows:

---

*A2*  
Next, the mixed signal interface is tested (step 70). The mixed signal interface can be  
tested in accordance with the teaching of a co-pending, commonly owned application entitled  
“SYSTEMS AND METHODS FOR SELF-CALIBRATION TESTING”, filed concurrently  
herewith and having Application Serial No. 09/930,828, the content of which is incorporated-  
by-reference herewith. As taught therein, the chip has hot-electron sensors (deep well diodes),  
hot electron generators (small ring oscillators), temperature sensors (simple diodes with  
metallization to screen out the light), and heaters (simple polysilicon resistors placed over a  
diode and transistors). A high precision analog to digital converter (in one implementation, a 12  
bit delta-sigma ADC) captures calibration data based in part on voltage variations or temperature  
variations, among others, and stores the calibration data in the embedded memory for subsequent  
processing.

---